

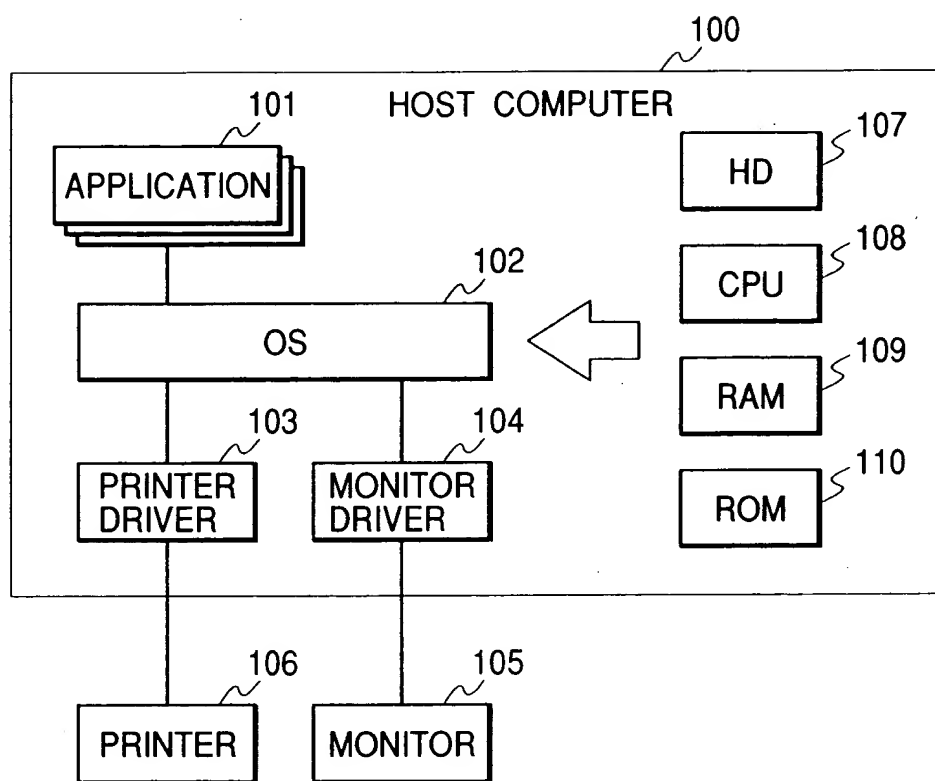
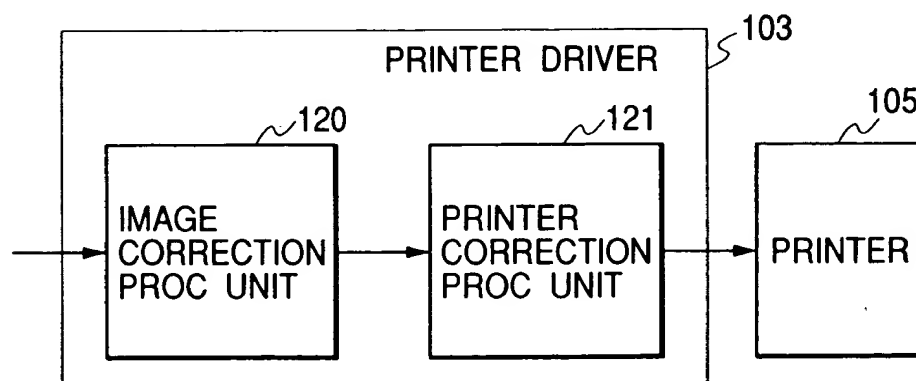
**FIG. 1****FIG. 2**

FIG. 3

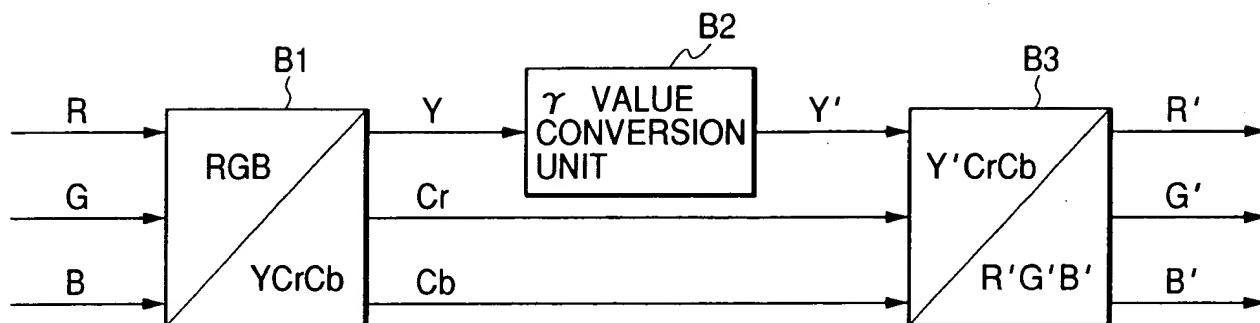
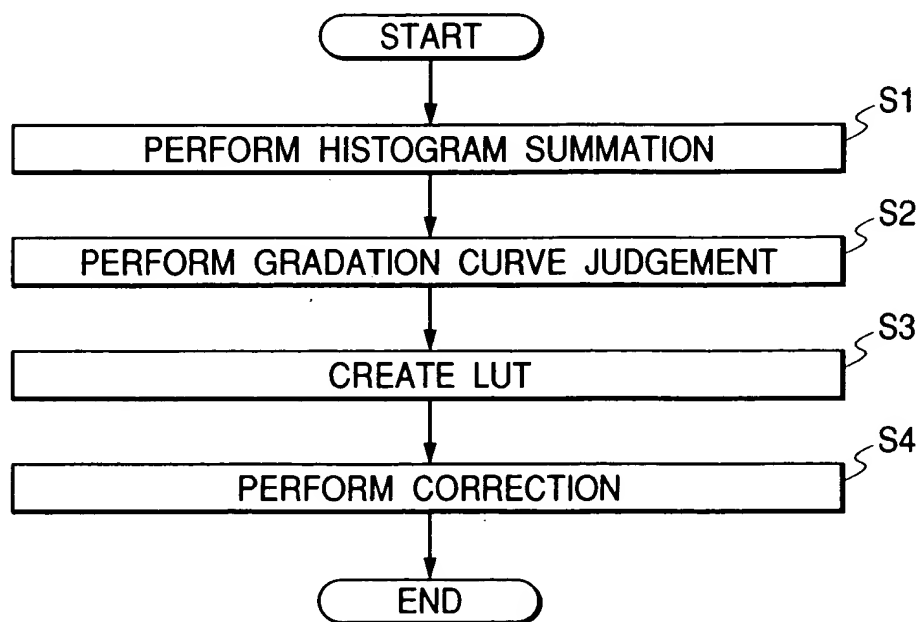


FIG. 4



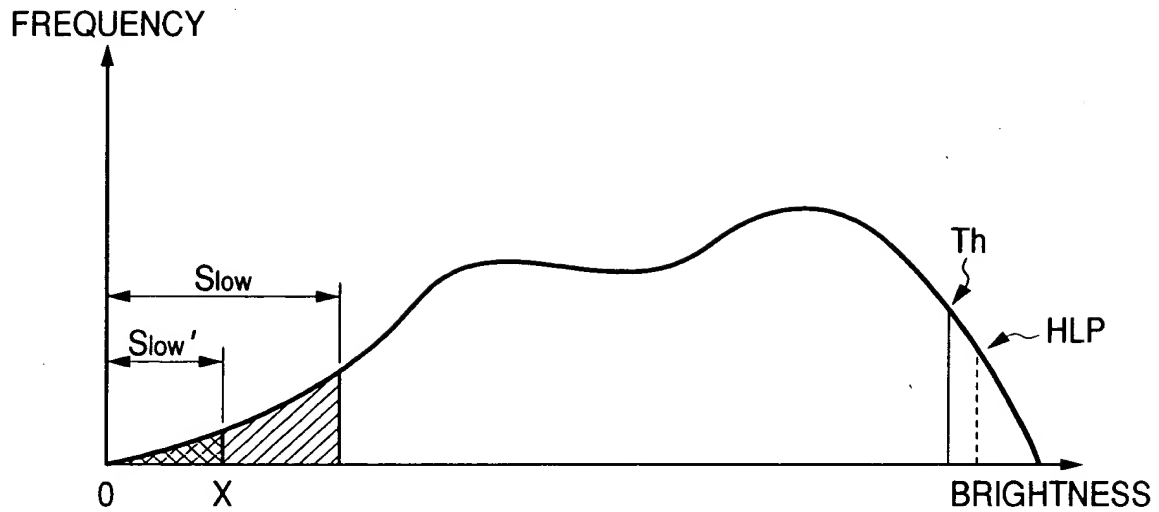
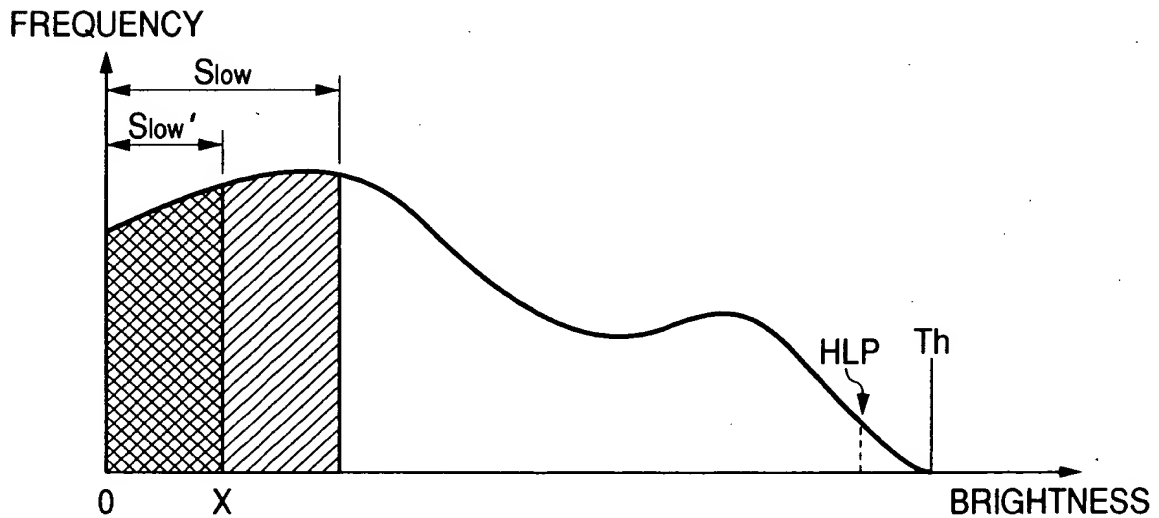
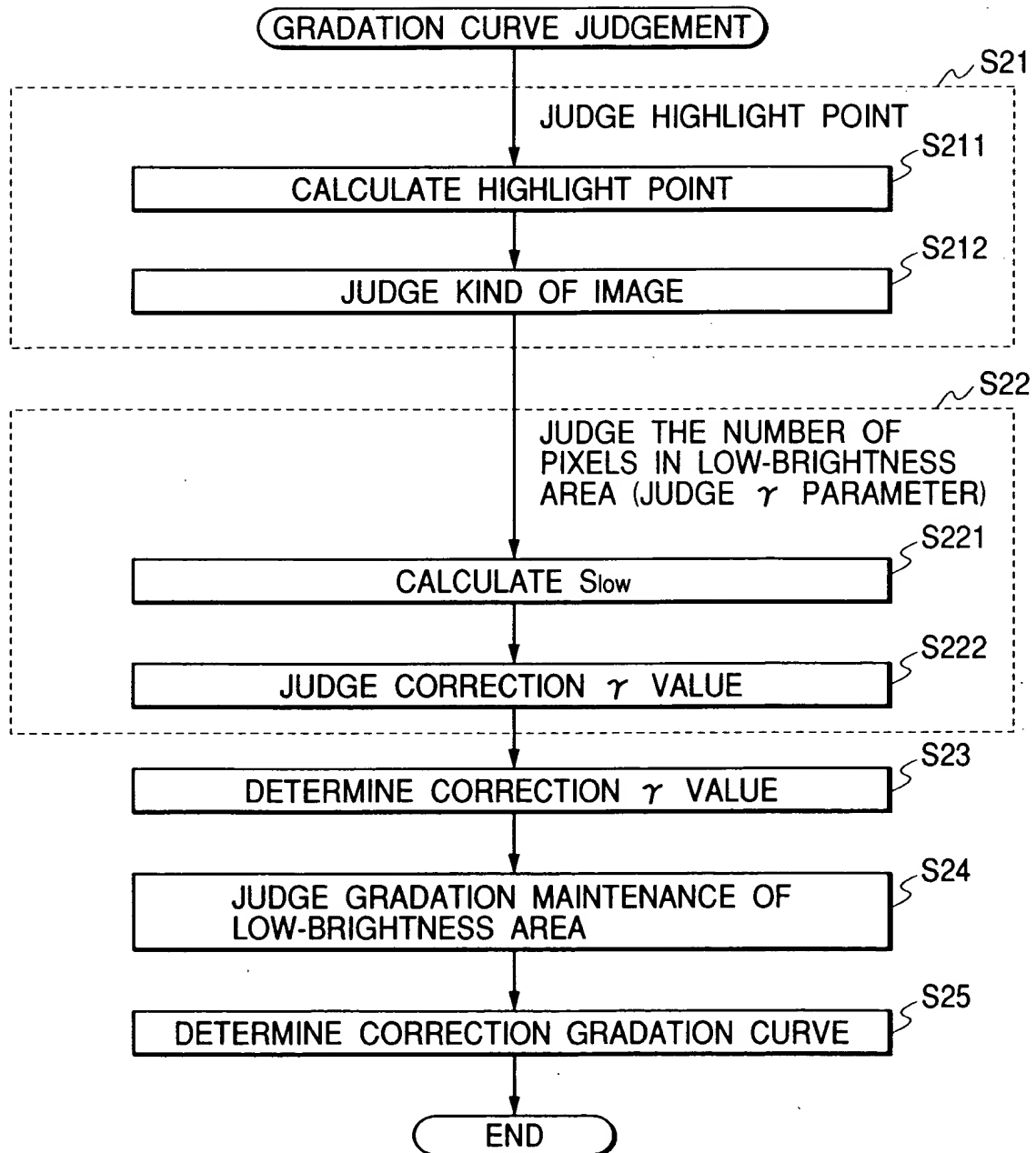
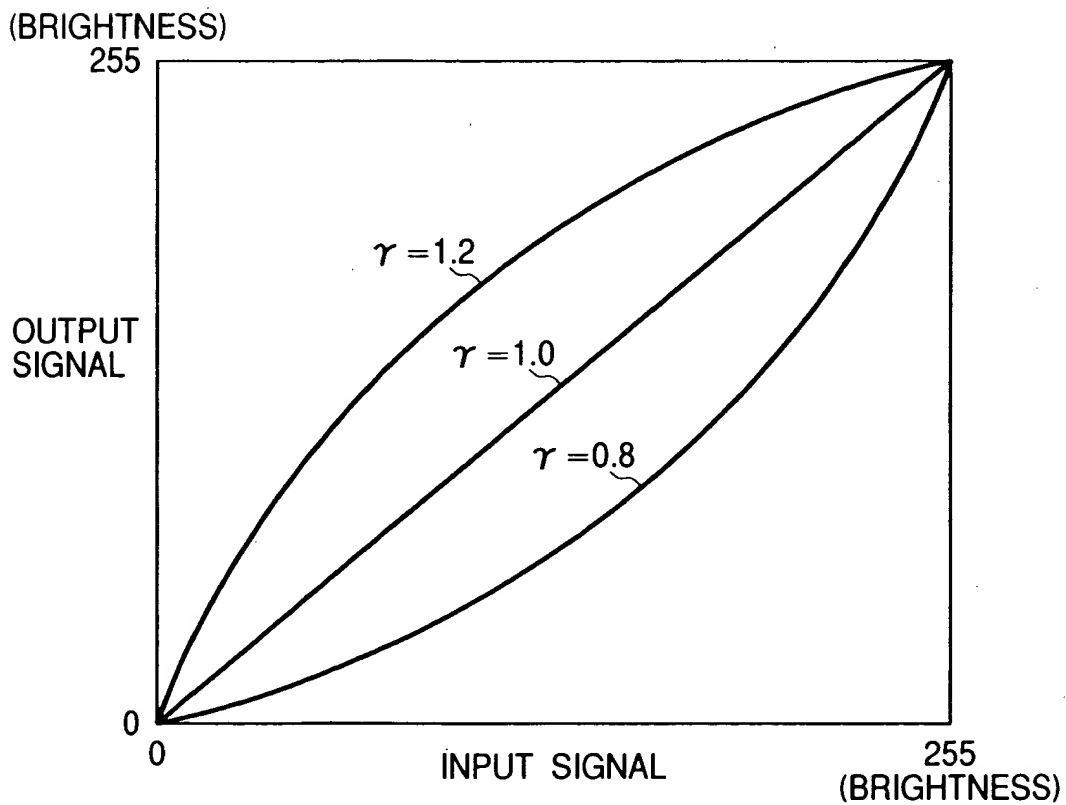
*FIG. 5**FIG. 6*

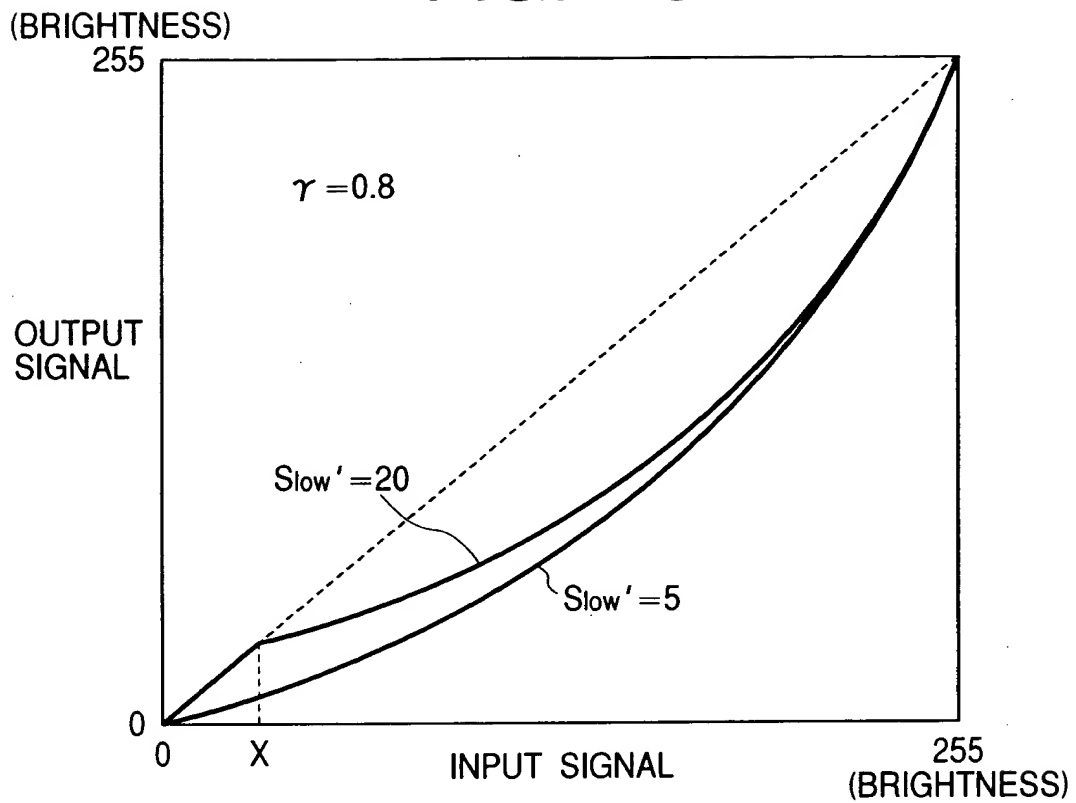
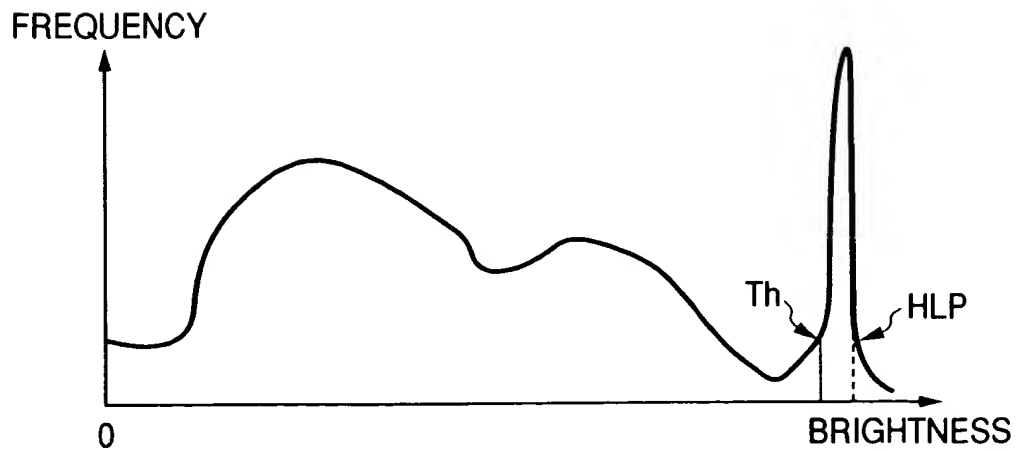
FIG. 7



*FIG. 8*

KIND OF PIXEL	Slow	OPTIMUM $\gamma$ VALUE
LIGHT	0—30	0.8
	31—60	1
	61—	1.2
DARK	0—15	0.8
	16—30	1
	31—	1.2

*FIG. 9*

*FIG. 10**FIG. 11*

*FIG. 12*

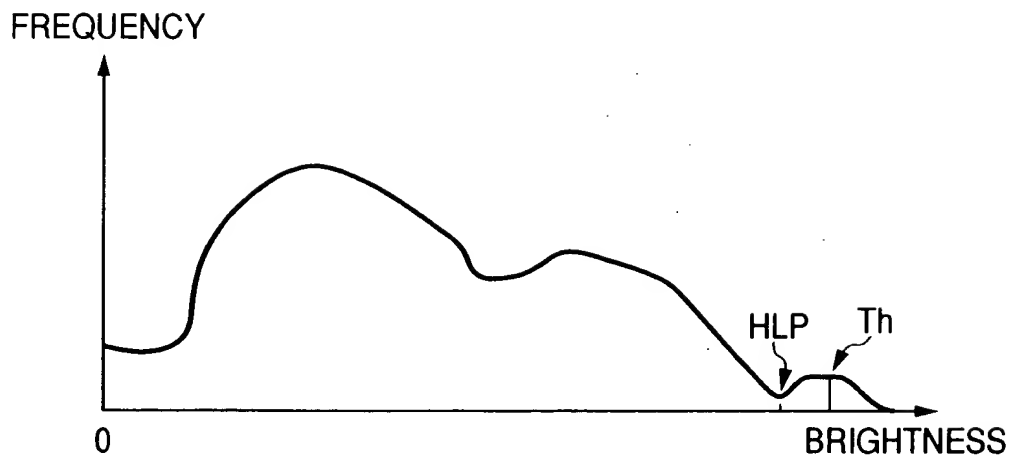
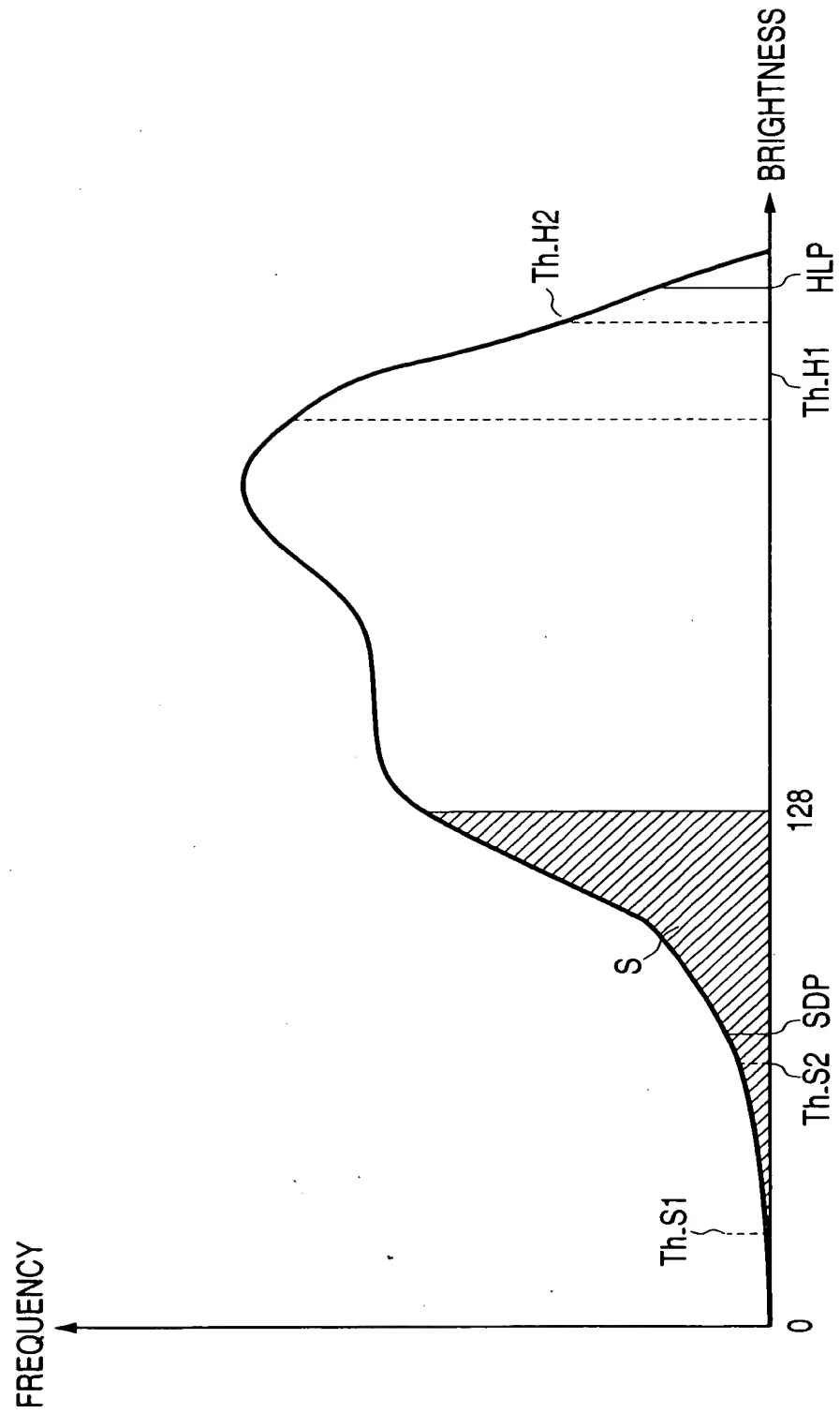


FIG. 13





**FIG. 14**

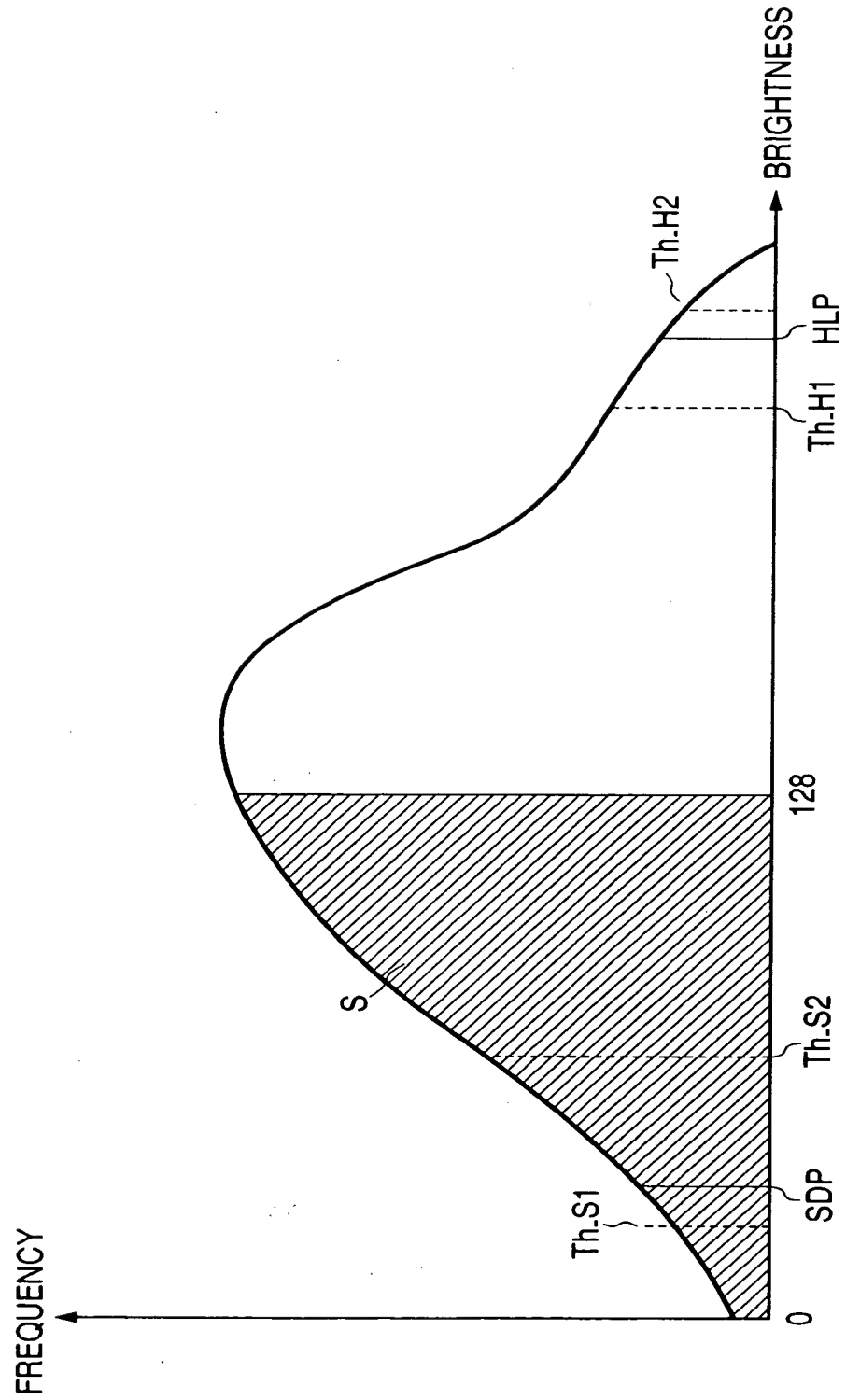
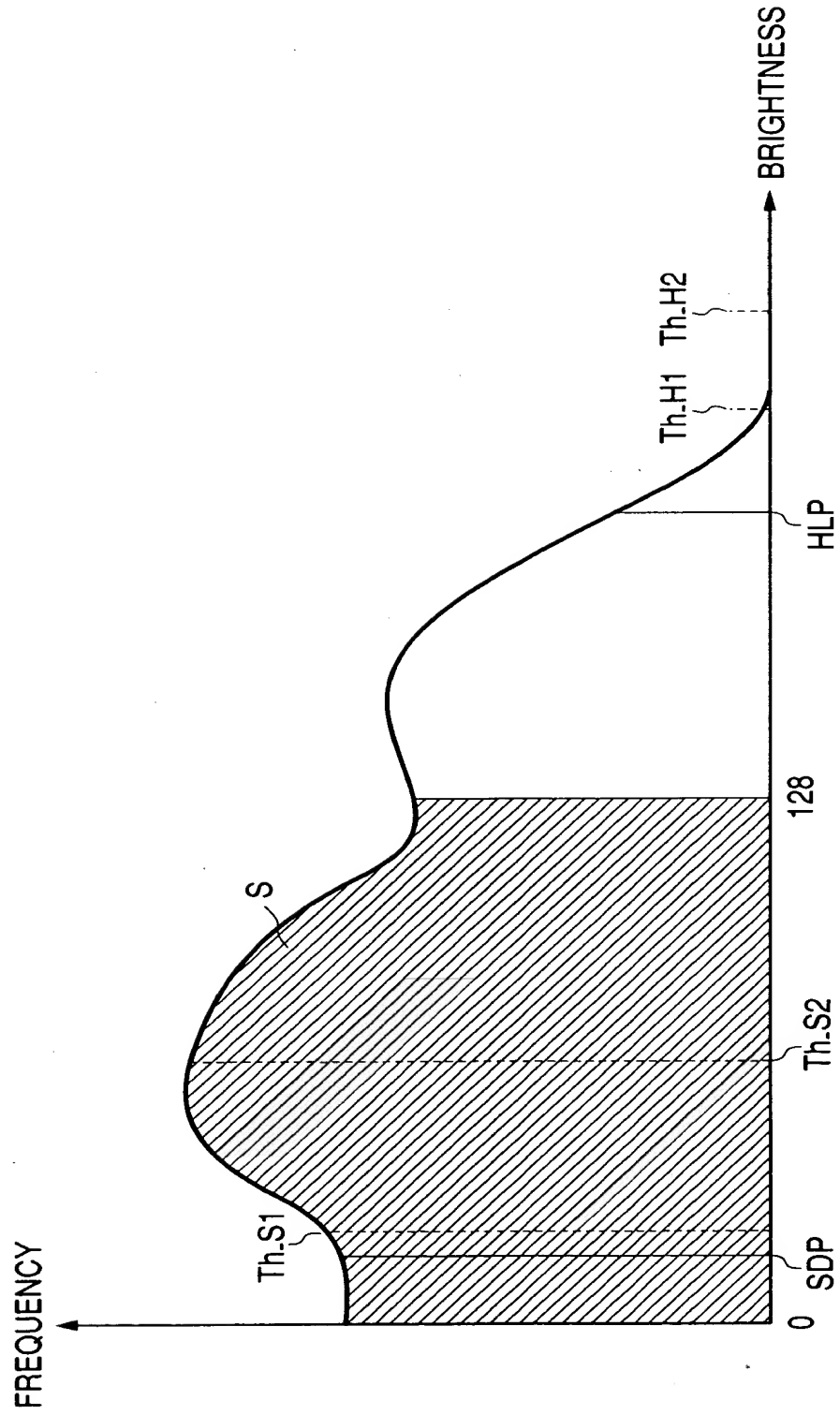


FIG. 15



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graph TD; A([GRADATION CURVE JUDGEMENT]) --> B[CALCULATE HIGHLIGHT POINT S31]; B --> C[JUDGE HISTOGRAM BALANCE S32]; C --> D[CALCULATE SHADOW POINT S33]; D --> E[JUDGE CORRECTION GRADATION CURVE S34]; E --> F([END]);
```

The flowchart illustrates the process of gradation curve judgement. It begins with a start node labeled "GRADATION CURVE JUDGEMENT". The process then proceeds through four main steps: "CALCULATE HIGHLIGHT POINT" (labeled S31), "JUDGE HISTOGRAM BALANCE" (labeled S32), "CALCULATE SHADOW POINT" (labeled S33), and "JUDGE CORRECTION GRADATION CURVE" (labeled S34). Each step is connected to the next by a downward arrow. The process concludes with an "END" node.

FIG. 17

HLP	BALANCE DEGREE OF HISTOGRAM (S128)	SDP	CORRECTION GRADATION CURVE
-200	0-60	0-10	HIGH-BRIGHTNESS AREA OF 200 OR MORE IS CUT
		11-30	HIGH-BRIGHTNESS AREA OF 200 OR MORE IS CUT, AND $\gamma 0.8$ IS MULTIPLIED
		31-	HIGH-BRIGHTNESS AREA OF 200 OR MORE, AND LOW-BRIGHTNESS AREA OF 30 OR LESS ARE CUT
	61-100	0-5	HIGH-BRIGHTNESS AREA OF 200 OR MORE IS CUT, AND $\gamma 1.2$ IS MULTIPLIED
		6-	HIGH-BRIGHTNESS AREA OF 200 OR MORE IS CUT
201-230	0-30	0-10	$\gamma 0.8$ CURVE
		11-	HIGH-BRIGHTNESS AREA OF 230 OR MORE IS CUT, AND $\gamma 0.8$ IS MULTIPLIED
	31-60	0-5	NO CORRECTION IS PERFORMED
		6-20	S-CURVE
		21-	LOW-BRIGHTNESS AREA OF 20 OR LESS IS CUT
231-255	0-15	0-15	HIGH-BRIGHTNESS AREA OF 230 OR MORE IS CUT
		16-	HIGH-BRIGHTNESS AREA OF 230 OR MORE IS CUT, AND $\gamma 0.8$ IS MULTIPLIED
		0-30	$\gamma 0.9$ CURVE
	16-50	31-50	$\gamma 0.8$ CURVE
		51-	LOW-BRIGHTNESS AREA OF 50 OR LESS IS CUT
51-100	0-8	0-8	NO CORRECTION IS PERFORMED
		9-20	S-CURVE
		21-	LOW-BRIGHTNESS AREA OF 20 OR LESS IS CUT
	51-100	0-10	$\gamma 1.2$ CURVE
		11-	$\gamma 1.1$ CURVE

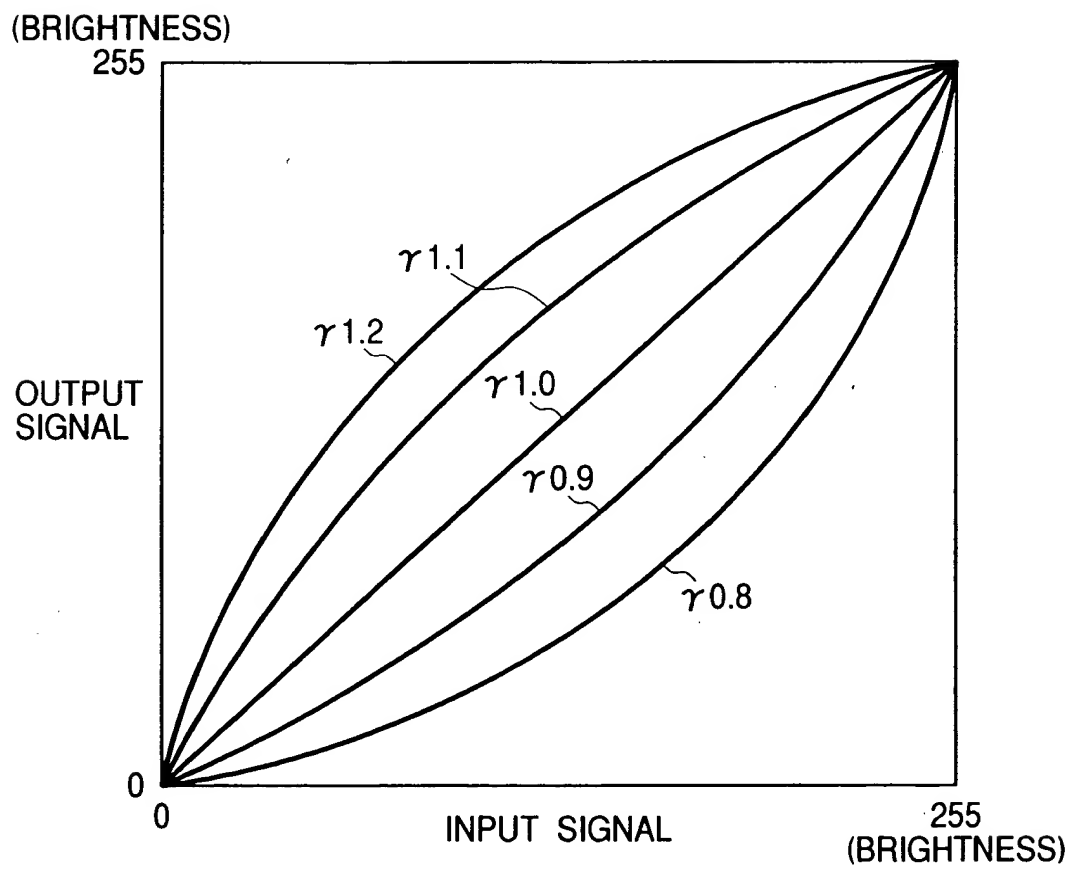
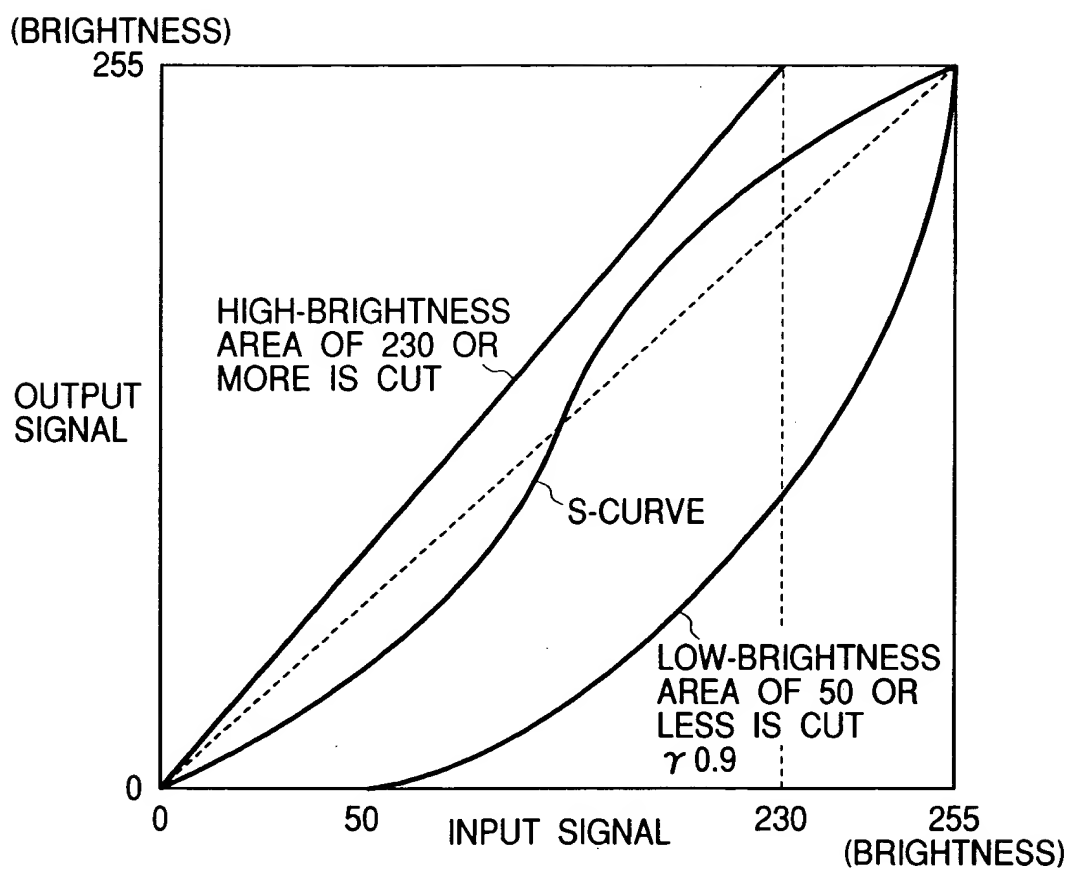
*FIG. 18*

FIG. 19



**FIG. 20**

